

Applicants : Philip J. Quenzi et al.

Title : LIGHT WEIGHT APPARATUS FOR SCREEDING AND VIBRATING
UNCURED CONCRETE SURFACES

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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the present application:

1-25 (canceled).

26 (original): A wheeled screeding device movable over a surface of uncured concrete and being operable to level and smooth the uncured concrete surface, said wheeled screeding device comprising:

a wheeled support having a frame portion and at least one wheel rotatably mounted to said frame portion;

a vibrating member mounted to said frame portion; and

a grade setting device which is adjustably mounted to the vibrating member, said vibrating member being at least partially supportable on the uncured concrete surface, said grade setting device being adjustable relative to said vibrating member to at least one of establish and indicate a desired grade of the concrete surface.

27 (original): The wheeled screeding device of claim 26, wherein said grade setting device is automatically adjustable in response to a laser leveling system.

28 (original): The wheeled screeding device of claim 27, wherein said grade setting device is adjustable via at least one actuator, said at least one actuator being operable in response to a signal from a laser receiver mounted to said grade setting device.

29 (original): The wheeled screeding device of claim 26, wherein said grade setting device comprises a strike-off plow which functions to establish the desired grade as said screeding device moves over the uncured concrete surface.

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30 (original): The wheeled screeding device of claim 26, wherein said grade setting device comprises at least one indicator which functions to indicate the desired grade to an operator of said screeding device.

31 (original): The wheeled screeding device of claim 26 including at least one actuator for vertically adjusting said grade setting device relative to said vibrating member.

32 (original): The wheeled screeding device of claim 26, wherein said at least one wheel is rotatably driven to move said screeding device over and through the uncured concrete surface.

33 (original): The wheeled screeding device of claim 32 including a power source for driving said at least one wheel of said wheeled support, said power source being at least partially positioned on said wheeled support.

34 (original): The wheeled screeding device of claim 33, wherein said vibrating member is mounted to a rearward end of said frame portion and said grade setting device is mounted at a forward portion of said vibrating member.

35 (original): The wheeled screeding device of claim 34, wherein said wheeled support includes a handle portion extending from a forward end of said wheeled support.

36 (original): The wheeled screeding device of claim 26 including a concrete moving device which is operable to engage and move excess concrete from in front of said grade setting device to at least one side of said screeding device as said screeding device is moved through the uncured concrete.

37 (original): The wheeled screeding device of claim 26, wherein said grade setting device comprises a concrete moving device which is operable to engage and move excess concrete from in front of said vibrating member to at least one side of said screeding device as said screeding device is moved through the uncured concrete.

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38 (original): The wheeled screeding device of claim 26, wherein said vibrating member is adjustably mounted to said wheeled support.

39 (original): The wheeled screeding device of claim 38, wherein said vibrating member is adjustable relative to said wheeled support to adjust a height of said vibrating member relative to said wheeled support.

40 (original): The wheeled screeding device of claim 38, wherein said vibrating member is adjustable relative to said wheeled support to adjust a pitch of said vibrating member relative to said wheeled support and relative to the concrete surface.

41-77 (canceled).

78 (currently amended): A method of smoothing and screeding an uncured concrete surface, said method comprising:

providing a wheeled screeding apparatus which includes at least one wheel, a frame portion mounted at said at least one wheel, and a screeding device mounted at said frame portion, said at least one wheel being movable through an uncured concrete surface;

balancing said wheeled screeding apparatus about said at least one wheel such that said screeding device is at least partially supported on the uncured concrete surface;

moving said wheeled screeding apparatus at least one of over and through the uncured concrete; and

screeding the uncured concrete surface with said screeding device while said screeding device is at least partially supported on the uncured concrete surface, wherein screeding the uncured concrete surface includes vibrating a vibratable member that is at least partially supported on the uncured concrete surface and rests upon the uncured concrete surface while said wheeled screeding apparatus is moved at least one of over and through the uncured concrete.

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79 (original): The method of claim 78, wherein balancing said wheeled screeding apparatus includes balancing said wheeled screeding apparatus about a single axis of rotation of said at least one wheel, said screeding device being positioned at a first side of said single axis of rotation.

80 (original): The method of claim 79, wherein balancing said wheeled screeding apparatus includes balancing said wheeled screeding apparatus such that a first amount of weight of said wheeled screeding apparatus is positioned at said first side of said single axis of rotation and a second amount of weight of said wheeled screeding apparatus is positioned opposite said first side of said single axis of rotation, said first amount of weight being greater than said second amount of weight.

81 (original): The method of claim 78 including adjusting said wheeled screeding apparatus to adjust a degree in which said screeding device is supported on the uncured concrete surface.

82 (original): The method of claim 78 including adjusting an angle of said screeding device about an axis generally parallel to a direction of travel of said wheeled screeding apparatus.

83 (canceled).

84 (currently amended): The method of claim ~~83~~ 78, wherein providing a wheeled screeding apparatus includes providing a grade setting device adjustably mounted to said vibratable member.

85 (original): The method of claim 84 including:

adjusting said grade setting device relative to said vibratable member; and

at least one of establishing and indicating a desired grade for the concrete surface with said grade setting device.

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86 (currently amended): The method of claim ~~83~~ 78, wherein said screeding device includes means for moving excess concrete from in front of said vibratable member.

87 (original): The method of claim 78, wherein said screeding device comprises an auger.

88 (original): The method of claim 78, wherein said screeding device comprises a strike-off plow.

89 (original): The method of claim 78, wherein said screeding device comprises an elongated spinning roller or tube for leveling.

90 (new): A wheeled screeding device movable over a surface of uncured concrete and being operable and controllable by an operator not supported by said wheeled screeding device, said wheeled screeding device being operable to level and smooth the uncured concrete surface, said wheeled screeding device comprising:

a wheeled support having a frame portion and a pair of wheels rotatably mounted to said frame portion, said wheels supporting a first end of said frame portion above the uncured concrete;

a concrete surface working member mounted to a second end of said frame portion, said second end being opposite said first end, said concrete surface working member including a vibratable member, said concrete surface working member being at least partially supportable on the uncured concrete surface; and

a grade setting device adjustably mounted to said concrete surface working member, said grade setting device being adjustable relative to said concrete surface working member to engage the uncured concrete surface and establish a desired grade elevation for the uncured concrete surface, said concrete surface working member rests upon the uncured concrete surface at the established grade elevation and provides support for said second end of said frame portion while said wheeled support is moved over or through said uncured concrete and while said grade setting device engages the uncured concrete surface and establishes said desired grade elevation.

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91 (new): The wheeled screeding device of claim 90, wherein said grade setting device is automatically adjustable in response to a laser leveling system.

92 (new): The wheeled screeding device of claim 91, wherein said grade setting device is adjustable via at least one actuator, said at least one actuator being operable in response to a signal from a laser receiver mounted to said grade setting device.

93 (new): The wheeled screeding device of claim 90, wherein said grade setting device comprises a strike-off plow which functions to establish the desired grade as said screeding device moves over the uncured concrete surface.

94 (new): The wheeled screeding device of claim 90 including at least one actuator for vertically adjusting said grade setting device relative to said concrete surface working member.

95 (new): The wheeled screeding device of claim 90, wherein at least one of said wheels is rotatably driven to move said screeding device over and through the uncured concrete surface.

96 (new): The wheeled screeding device of claim 95 including a power source for driving said at least one of said wheels of said wheeled support, said power source being at least partially positioned on said wheeled support.

97 (new): The wheeled screeding device of claim 96, wherein said second end comprises a rearward end of said frame portion and said grade setting device is mounted at a forward portion of said concrete surface working member.

98 (new): The wheeled screeding device of claim 97, wherein said wheeled support includes a handle portion extending from said first end of said wheeled support.

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99 (new): The wheeled screeding device of claim 90 including a concrete moving device which is operable to engage and move excess concrete from in front of said grade setting device to at least one side of said screeding device as said screeding device is moved through the uncured concrete.

100 (new): The wheeled screeding device of claim 90, wherein said grade setting device comprises a concrete moving device which is operable to engage and move excess concrete from in front of said vibrating member to at least one side of said screeding device as said screeding device is moved through the uncured concrete.

101 (new): The wheeled screeding device of claim 90, wherein said concrete surface working member is adjustably mounted to said wheeled support.

102 (new): The wheeled screeding device of claim 101, wherein said concrete surface working member is adjustable relative to said wheeled support to adjust a height of said concrete surface working member relative to said wheeled support.

103 (new): The wheeled screeding device of claim 101, wherein said concrete surface working member is adjustable relative to said wheeled support to adjust a pitch of said concrete surface working member relative to said wheeled support and relative to the concrete surface.